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NOTICE OF ALLOWANCE AND FEE(S) DUE

23280

7590

09/14/2009

Davidson, Davidson & Kappel, LLC 485 7th Avenue 14th Floor New York, NY 10018 EXAMINER

COSIMANO, EDWARD R

ART UNIT PAPER NUMBER

2863

DATE MAILED: 09/14/2009

	APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
•	10/564,257	05/03/2006	Volker Albrecht	710.1035	7709

TITLE OF INVENTION: METHOD AND DEVICE FOR PREDICTING A FAILURE FREQUENCY

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1510	\$300	\$0	\$1810	12/14/2009

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE

Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

or Fax (571)-273-2885

INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed where

appropriate. All further indicated unless correcte maintenance fee notifical	correspondence includired below or directed other	ng the Patent, advance nerwise in Block 1, by	orders and notification of n (a) specifying a new corres	naintenance fees waspondence address;	rill be and/or	mailed to the current (b) indicating a separ	correspondence address as rate "FEE ADDRESS" for
CURRENT CORRESPONDENCE ADDRESS (Note: Use Block 1 for any change of address) 23280 7590 09/14/2009				Note: A certificate of mailing can only be used for domestic mailings of the Fee(s) Transmittal. This certificate cannot be used for any other accompanying papers. Each additional paper, such as an assignment or formal drawing, must have its own certificate of mailing or transmission.			
						e of Mailing or Transn	niccion
485 7th Avenue 14th Floor	idson & Kappel, I	I he State addr trans	reby certify that the es Postal Service we ressed to the Mail smitted to the USP.	is Fee(vith suf Stop ΓΟ (57	s) Transmittal is being ficient postage for first 1SSUE FEE address (1) 273-2885, on the da	deposited with the United class mail in an envelope above, or being facsimile te indicated below.	
New York, NY	10018						(Depositor's name)
							(Signature)
							(Date)
APPLICATION NO.	FILING DATE		FIRST NAMED INVENTOR		ATTO	RNEY DOCKET NO.	CONFIRMATION NO.
10/564,257	05/03/2006		Volker Albrecht			710.1035	7709
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nonprovisional	NO	\$1510	\$300	\$0		\$1810	12/14/2009
EXAM	INER	ART UNIT	CLASS-SUBCLASS]			
COSIMANO,	EDWARD R	2863	702-182000	00			
"Fee Address" ind PTO/SB/47; Rev 03-0 Number is required. 3. ASSIGNEE NAME A PLEASE NOTE: Unl	less an assignee is identi h in 37 CFR 3.11. Comp	'Indication form ed. Use of a Customer A TO BE PRINTED ON ified below, no assigne	registered attorney or a	vely, e firm (having as a agent) and the nam rneys or agents. If a printed. be) atent. If an assign assignment.	membes of uno nam	p to he is 3dentified below, the do	ocument has been filed for
Please check the appropri	iate assignee category or	categories (will not be	printed on the patent):	Individual 🖵 Co	rporati	ion or other private gro	up entity Government
	are submitted: To small entity discount p # of Copies	☐ A check is enclosed. ☐ Payment by credit car ☐ The Director is hereby	Payment of Fee(s): (Please first reapply any previously paid issue fee shown above) A check is enclosed. Payment by credit card. Form PTO-2038 is attached. The Director is hereby authorized to charge the required fee(s), any deficiency, or credit any overpayment, to Deposit Account Number (enclose an extra copy of this form).				
5. Change in Entity State a. Applicant claim	tus (from status indicated s SMALL ENTITY statu		b. Applicant is no long	ger claiming SMAI	L EN	Г1ТҮ status. See 37 СF	R 1.27(g)(2).
NOTE: The Issue Fee and interest as shown by the I	d Publication Fee (if requeecords of the United Sta	uired) will not be accep tes Patent and Tradema	ted from anyone other than tark Office.	he applicant; a regi	stered	attorney or agent; or the	e assignee or other party in
Authorized Signature				Date			
Typed or printed name				Registration No.			
an application. Confident submitting the completed this form and/or suggesti	tiality is governed by 35 I application form to the ions for reducing this bu	U.S.C. 122 and 37 CFI USPTO. Time will varden, should be sent to	tion is required to obtain or r R 1.14. This collection is est ry depending upon the indiv the Chief Information Office R COMPLETED FORMS TO	imated to take 12 r ridual case. Any co er. U.S. Patent and	ninutes mment Traden	s to complete, including ts on the amount of tin nark Office. U.S. Depa	g gathering, preparing, and ne you require to complete rtment of Commerce, P.O.

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23280	7590 09/14/2009		EXAMINER		
Davidson, Davi	dson & Kappel, LLC	COSIMANO, EDWARD R			
485 7th Avenue			ART UNIT	PAPER NUMBER	
14th Floor New York, NY 1	0018		2863 DATE MAILED; 09/14/200	9	

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 263 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 263 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 (571)-272-4200.

	Application No.	Applicant(s)	
As a second second	10/564,257	ALBRECHT ET AL.	
Notice of Allowability	Examiner	Art Unit	
	Edward R. Cosimano	2863	
The MAILING DATE of this communication appeal All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT R	(OR REMAINS) CLOSED in this app or other appropriate communication IGHTS. This application is subject to	olication. If not include will be mailed in due of	ed course. THIS
1. This communication is responsive to the amendment filed	<u>05 June 2009</u> .		
2. X The allowed claim(s) is/are 23-28,31-36 and 48-57.			
 3. Acknowledgment is made of a claim for foreign priority ur a) All b) Some* c) None of the: 1. Certified copies of the priority documents have 2. Certified copies of the priority documents have 3. Copies of the certified copies of the priority documents 	e been received. e been received in Application No		ion from the
International Bureau (PCT Rule 17.2(a)).			
* Certified copies not received:			
Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONN THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		complying with the req	uirements
4. A SUBSTITUTE OATH OR DECLARATION must be subm INFORMAL PATENT APPLICATION (PTO-152) which give			OTICE OF
 5. CORRECTED DRAWINGS (as "replacement sheets") must (a) including changes required by the Notice of Draftspers 1) hereto or 2) to Paper No./Mail Date (b) including changes required by the attached Examiner's Paper No./Mail Date Identifying indicia such as the application number (see 37 CFR 1 each sheet. Replacement sheet(s) should be labeled as such in the deponsal description of the deponsal description of the deponsal description. 6. DEPOSIT OF and/or INFORMATION about the deponsal deponsal deponsal description. 	son's Patent Drawing Review (PTO- s Amendment / Comment or in the C .84(c)) should be written on the drawing the header according to 37 CFR 1.121(c	office action of ngs in the front (not the d).	
Attachment(s) 1. ☐ Notice of References Cited (PTO-892) 2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948) 3. ☐ Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date 4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material	5. ☐ Notice of Informal P 6. ☐ Interview Summary Paper No./Mail Dat 7. ☒ Examiner's Amendn 8. ☒ Examiner's Stateme 9. ☐ Other	(PTO-413), e nent/Comment	wance
U.S. Patent and Trademark Office PTOL-37 (Rev. 08-06)	otice of Allowability	Part of Paper No./M	ail Date 20090910

Application/Control Number: 10/564,257

1. EXAMINER'S COMMENT

- 1.1 When preparing this Office action the examiner considers the instant application to include:
 - A) the Oath/Declaration filed on 03 May 2006 which is acceptable to the examiner;
 - B) the Abstract filed on 10 January 2006 which is acceptable to the examiner;
 - C) figures 1, 2, 3, 4 & 5 of the set of drawings containing 5 sheets of 5 figures comprising figures 1, 2, 3, 4 & 5 as presented in the set of drawings filed on 10 January 2006 where figures 1, 2, 3, 4 & 5 of the above set of drawings are acceptable to the examiner;
 - D) the written description as filed on 10 January 2006 and amended on 10 January 2006 and further amended on 16 July 2008; and
 - E) the set of claims as filed on 05 June 2009.
- 1.2 Applicant's claim for the benefit of an earlier filing date pursuant to 35 U.S.C. 120, 35 U.S.C. 365(c) and 35 U.S.C. 371 are acknowledged.
- 1.3 Receipt is acknowledged of papers submitted under 35 U.S.C. 119(a)-(d), which papers have been placed of record in the file.
- 1.4 Response to applicant's arguments.
- 1.4.1 The objections and rejection that have not been repeated here in have been over come by applicant's last response.

2. REASONS FOR ALLOWANCE

- 2.1 The following is a statement of reasons for the indication of allowable subject matter:
 - A) the prior art, for example:
 - (1) Anderson (2,883,255) discloses a machine/process that provides the useful and beneficial function of a remote machine/process monitoring and logging machine/process in which a sufficient number of machine/process operating parameters to characterize the operation of the monitored machine/process are monitored. The monitored operating parameters are then compared to corresponding thresholds or setpoints in order to determining if the current operation of the monitored machine/process has deviated from the normal

operation of the monitored machine/process. When it is determined that the current operation of the monitored machine/process has deviated, then the operating parameter data/information is remotely displayed to an user/operator in a manner that permits the easy identification of the abnormal operating parameters by the user/operator.

- (2) Bellows et al (5,132,920) discloses a machine/process that provides the useful and beneficial function of prioritizing the repair of a machine/process by using a determination of the severity of a failure of a machine/process as determined from the reciprocal of the mean time to failure of each of the failed components of the machine/process.
- (3) Hooks et al (6,532,426) discloses a machine/process that provides the useful and beneficial function of using an evaluation or analysis of different operating scenarios during the process of designing machines/process in which the effective mean time to failure of a machine/process is determined based on an adjustment of the mean time to failure of each of the components of the machine/process with a consideration for available spare parts/components.
- (4) Brand et al (7,149,673) discloses a machine/process that provides the useful and beneficial function of estimating the changes in the life of a machine/process/product in order to redesign the machine/process/product by considering the inverse of a mean time between failures of the machine/process/product.
- B) however, the prior art does not fairly teach or suggest in regard to claims 23, 38 & 48 a process in claim 23, an article or manufacture in claim 38 and as a machine in claim 48, that provides the useful and beneficial function of determining the mean time between failures of a machine/component by providing actions in claim 23 and structures in claims 38 & 48 that perform at least the functions of:
 - (1) determining or acquiring a setpoint for the mean time between failures (MTBF) value for each of the critical components of a machine/process, that when a critical component fails then the machine/process will fail;

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(2) determining or calculating a summation of the inverse or reciprocal of the values of the setpoint MTBF values for each of the critical components of the

the values of the serpoint WTBF values for each of the critical components of the

machine/process; and

(3) determining or calculating a predicted MTBF value as the inverse or

reciprocal of the determined summation of the inverse or reciprocal values for the

setpoint MTBF values for each of the critical components of the machine/process.

Claims 24-28 & 31-36, which depend from claim 23, claims 39-47, which depend from

claim 38, and claims 49-57, which depend from claim 48, are allowable over the prior art

for the same reason.

3. Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Edward R. Cosimano whose telephone number is 571-272-0571.

The examiner can normally be reached on 571-272-0571 from 7:30am to 4:00pm (Eastern

Time).

3.1 If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Drew Dunn, can be reached on 571-272-2312. The fax phone number for the

organization where this application or proceeding is assigned is 571-273-8300.

3.2 Information regarding the status of an application may be obtained from the Patent

Application Information Retrieval (PAIR) system. Status information for published applications

may be obtained from either Private PAIR or Public PAIR. Status information for unpublished

applications is available through Private PAIR only. For more information about the PAIR

system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR

system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

ERC

09/10/2009

/Edward Cosimano/ Primary Examiner Unit 2863